



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE**

PRO/SB/08a (03-03)

Subject line for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

She

of

Substitute for form 1449A/PTO <b>TRADEMARKS</b>		Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/687,552
		Filing Date	October 15, 2003
		First Named Inventor	Ivan MOLLOV
		Art Unit	To Be Assigned
		Examiner Name	To Be Assigned
		Attorney Docket Number	VM7034922001
(Use as many sheets as necessary)			
Sheet	1	of	1

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

**Examiner  
Signature**

### Data Considered

2-16-85

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>3</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 601.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.68. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449B-PTO**

JUN 13 2005

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

*Complete if Known*

Application Number	10/687,552
Filing Date	October 15, 2003
First Named Inventor.	Ivan MOLLOV
Art Unit	2878
Examiner Name	Faye S. Polyzos
Attorney Docket Number	VM7034922001

## NON PATENT LITERATURE DOCUMENTS

**Examiner's  
Signature**

**Date  
Considered**

8-18-05

**\* EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Applicant's unique Client/Designation number (optional). Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.98. This information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Complete if Known

Substitute for form 1449A-PTO

JUN 13 2005

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

Application Number	10/687,552
Filing Date	October 15, 2003
First Named Inventor	Ivan MOLLOV
Art Unit	2878
Examiner Name	Faye S. Polyzos
Attorney Docket Number	VM7034922001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number – Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
FP	1	US-4,191,856	03-04-80	Nagano et al.	
FP	2	US-4,216,435	08-05-80	Ahmed	
FP	3	US-4,220,873	09-02-80	Giordano	
FP	4	US-4,366,522	12-28-82	Baker	
FP	5	US-4,572,967	02-25-86	Metz	
FP	6	US-4,596,958	06-24-86	Graeme et al.	
FP	7	US-4,672,454	06-09-87	Canella et al.	
FP	8	US-4,727,506	02-23-88	Fling	
FP	9	US-4,740,722	04-26-88	Furuhata	
FP	10	US-4,746,814	05-24-88	Shigekane	
FP	11	US-4,804,863	02-14-89	Welland et al.	
FP	12	US-5,130,798	07-14-92	Christopher	
FP	13	US-5,130,567	07-14-92	Rutten et al.	
FP	14	US-5,148,121	09-15-92	Uchida	
FP	15	US-5,159,341	10-27-92	McCartney et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
FP	16	EP 0 776 124 A2 & A3	05-28-97	Planned Oy	
FP	17	EP 0 159 654 B1	01-30-91	Kabushiki Kaisha Toshiba	

Examiner's  
SignatureDate  
Considered

8-18-05

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A-PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 4

## Complete if Known

Application Number	10/687,552
Filing Date	October 15, 2003
First Named Inventor	Ivan MOLLOV
Art Unit	2878
Examiner Name	Faye S. Polyzos
Attorney Docket Number	VM7034922001

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code <sup>2</sup> (if known)			
FP	18	US-5,170,115	12-08-92	Kashiwabara et al.	
FP	19	US-5,184,018	02-02-93	Conrads et al.	
FP	20	US-5,262,649	11-16-93	Antonuk et al.	
FP	21	US-5,304,853	04-19-94	Choi	
FP	22	US-5,331,222	07-19-94	Lin et al.	
FP	23	US-5,352,987	10-04-94	Harvey	
FP	24	US-5,355,035	10-11-94	Vora et al.	
FP	25	US-5,363,055	11-08-94	Ribner	
FP	26	US-5,400,083	03-21-95	Mizusawa	
FP	27	US-5,430,400	07-04-95	Herlein et al.	
FP	28	US-5,442,407	08-15-95	Iu	
FP	29	US-5,465,284	11-07-95	Karellas	
FP	30	US-5,489,910	02-06-96	Kuwata et al.	
FP	31	US-5,506,880	04-09-96	Scardino et al.	
FP	32	US-5,508,751	04-16-96	Nitta	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)				

Examiner's Signature

Date Considered

8-18-05

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-PTO				Complete if Known	
				Application Number	10/687,552
				Filing Date	October 15, 2003
				First Named Inventor	Ivan MOLLOV
				Art Unit	2878
				Examiner Name	Faye S. Polyzos
Sheet	3	of	4	Attorney Docket Number	VM7034922001

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number – Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
FP	33	US-5,576,646	11-19-96	Rezzi et al.	
FP	34	US-5,581,274	12-03-96	Tagawa	
FP	35	US-5,589,847	12-31-96	Lewis	
FP	36	US-5,657,400	08-12-97	Granfors et al.	
FP	37	US-5,689,197	11-18-97	Sugawara	
FP	38	US-5,717,457	02-10-98	Morimoto	
FP	39	US-5,739,803	04-14-98	Neugebauer	
FP	40	US-5,801,571	09-01-98	Allen et al.	
FP	41	US-5,864,146	01-26-99	Karellas	
FP	42	US-5,872,470	02-16-99	Mallinson et al.	
FP	43	US-5,953,060	09-14-99	Dierickx	
FP	44	US-5,970,115	10-19-99	Colbeth et al.	
FP	45	US-6,084,461	07-04-00	Colbeth et al.	
FP	46	US-6,118,438	09-12-00	Ho	
FP	47	US-6,259,489 B1	07-10-01	Flannaghan et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

Examiner's  
SignatureDate  
Considered

8-18-05

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet 4 of 4

**Complete if Known**

Application Number	10/687,552
Filing Date	October 15, 2003
First Named Inventor	Ivan MOLLOV
Art Unit	2878
Examiner Name	Faye S. Polyzos
Attorney Docket Number	VM7034922001

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code <sup>2</sup> (if known)			
FP	48	US-6,310,567 B1	10-30-01	Copley et al.	
FP	49	US-6,331,844 B1	12-18-01	Okumura et al.	
FP	50	US-6,359,607 B1	03-19-02	Yanagi et al.	
FP	51	US-6,424,750 B1	07-23-02	Colbeth et al.	
FP	52	US-6,469,740 B1	10-22-02	Kuroda et al.	
FP	53	US-6,486,808 B1	11-26-02	Seppi et al.	
FP	54	US-6,535,254 B1	03-18-03	Olsson et al.	
FP	55	US-6,587,142 B1	07-01-03	Kozlowski et al.	
FP	56	US-6,653,992 B1	11-25-03	Colbeth et al.	
FP	57	US-6,718,069 B2	04-06-04	Mollov et al.	
FP	58	US-6,744,912 B2	06-01-04	Colbeth et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)				

**Examiner's  
Signature**

Date  
Considered

8-18-05

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450.